

## Amendments to the Specification

1. Please replace the paragraph numbered [0236] beginning at page 66, line 14, with the following rewritten paragraph:

— [0236] The following procedure can be used to compute the worst-case response time of each A-h-k-a process:

i:= 0;

failure:= false;

while i ≤ number-of-A-h-k-a-processes and not (failure) do

begin

if  $a_i \in A\text{-h-k-a}$

then

begin

$RE_{newi} := c_{ai}$ ;

responsetimefound:= false;

while not(responsetimefound) and not(failure) do

begin

$RE_{previousi} := RE_{newi}$ ;

$RE_{newi} := c_{ai} + \text{DelayA}(a_i, RE_{previousi}) + \text{DelayP}((a_i, RE_{previousi})$   
 $+ B(a_i) + GT(a_i, RE_{previousi});$

if  $RE_{previousi} = RE_{newi}$

then

begin

$RE_{ai} := RE_{newi}$ ;

responsetimefound:= true;

end

if ( $RE_{newi} > L_{ai}$ )

then failure:= true;

end;

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        end;
        i:= i + 1;
    end. —

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2. Please replace the paragraph numbered [0372] beginning at page 122, line 14, with the following rewritten paragraph:

— [0372] The following procedure can be used to compute the worst-case response time of each A-s-k process:

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i:= 0;
failure:= false;
while i ≤ number-of-A-s-k-processes and not (failure) do
begin
    if  $a_i \in A\text{-s-k}$ 
    then
    begin
         $RE_{newi} := c_{ai}$ ;
        responsetimefound:= false;
        while not(responsetimefound) and not(failure) do
        begin
             $RE_{previousi} := RE_{newi}$ ;
             $RE_{newi} := c_{ai} + DelayA(a_i, RE_{previousi}) + DelayP((a_i, RE_{previousi})$ 
                 $+ B(a_i))$ ;
            if  $RE_{previousi} = RE_{newi}$ 
            then
            begin
                 $RE_{ai} := RE_{newi}$ ;
                responsetimefound:= true;
            end
            if ( $RE_{newi} > responsetimelimit$ )

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        then failure:= true;
    end;
end;
i:= i + 1;
end. —
```